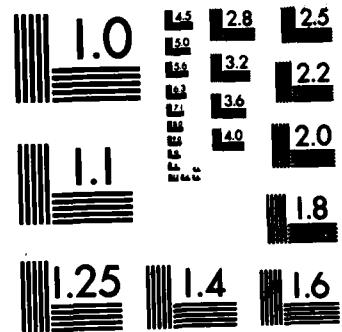


AD-A126 851 USAF (UNITED STATES AIR FORCE) BIOENVIRONMENTAL NOISE
DATA HANDBOOK VOLUM. (U) AIR FORCE AEROSPACE MEDICAL
RESEARCH LAB WRIGHT-PATTERSON AFB. J N COLE ET AL.
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AMRL-TR-75-50
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Volume 2

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AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY
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TECHNICAL REVIEW AND APPROVAL

AMRL-TR-75-50, Vol. 2

This report has been reviewed by the Office of Public Affairs (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



HENNING E. VON GIERKE, Dr Ing
Director
Biodynamics and Bioengineering Division
Air Force Aerospace Medical Research Laboratory

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AMRL-TR-75-50, Vol. 2	2. GOVT ACCESSION NO. AD-A126 851	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK: Index	5. TYPE OF REPORT & PERIOD COVERED Volume 2 of a series	
7. AUTHOR(s) John N. Cole Norma J. Peachey	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS AFAMRL, Biodynamics and Bioengineering Division, AMD, AFSC, Wright-Patterson AFB, OH 45433	8. CONTRACT OR GRANT NUMBER(s)	
11. CONTROLLING OFFICE NAME AND ADDRESS Same as above	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 62202F 72310714	
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)	12. REPORT DATE March 1983	
	13. NUMBER OF PAGES 17	
	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES AFAMRL Monitor: Mr. John N. Cole, AFAMRL/BBE, Telephone: (513) 255-3675		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Noise Noise Environments Bioenvironmental Noise		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is an index which identifies the individual volumes published during the 1975-1982 period by the Air Force Aerospace Medical Research Laboratory (AFAMRL) as a multi-volume report, "USAF Bioenvironmental Noise Data Handbook," AMRL-TR-75-50 and lists those aircraft, ground equipment and other systems reported therein. Refer to Volume 1 of this handbook, "USAF Bioenvironmental Noise Data Handbook, Vol. 1: Organization, Content and Application," AMRL-TR-75-50(1)-1975, for discussion of the objective and design of		

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the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc.

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PREFACE

This report was prepared by the Biodynamic Environment Branch, Air Force Aerospace Medical Research Laboratory, under Project/Task 723107, Technology to Define and Assess Environmental Quality of Noise From Air Force Operations.

The authors gratefully acknowledge the efforts of Mr. Henry Mohlman, University of Dayton Research Institute for his assistance in preparing this report.

Classification For:

1. NSA/I

2. TAB

3. Unneed

4. Classification

Attribution:

Availability Codes:

Avail Author:

Avail Special:

A

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INTRODUCTION

This index identifies the individual volumes published during the 1975-1982 period by the Air Force Aerospace Medical Research Laboratory (AFAMRL) as a multi-volume report, "USAF Bioenvironmental Noise Data Handbook," AMRL-TR-75-50 and lists those aircraft, ground equipment and other systems evaluated therein.

As of this date AFAMRL will no longer publish nor be responsible for any additional handbook volumes.

ORGANIZATION AND CONTENT

Part A of this index is a numeric listing of volume numbers giving title, author(s), the Defense Technical Information Center (DTIC) AD number and publication date.

Part B provides an alpha-numeric listing of all systems (i.e., noise sources) included in the Handbook with corresponding volume numbers and identification of the type(s) of environmental noise data available on each system (e.g., in-flight, near-field, or far-field data). See the next section for descriptions of these items.

Part C is a similar alpha-numeric listing of systems but which are grouped within classes (e.g., Military Aircraft - Fighter, or Ground Support Equipment - Generator).

HANDBOOK

TYPES OF DATA INCLUDED

The Handbook includes data on several types of environmental noise:

In-Flight Noise

Noise environments at flight crew and passenger locations on-board aircraft during some or all operations including engine start, taxi, takeoff, climb, cruise, approach and landing.

Near-Field Noise

Noise environments produced close to the source at ground crew locations during ground operations of aircraft, and ground-based equipment/facilities. Such locations are in the acoustic near-field of the source where the source is spatially distributed and cannot be regarded as a point source.

Far-Field Noise

Noise environments produced at moderate-to-large distances from the source, typically at locations adjacent to the flight line and in the surrounding community, during ground operations of aircraft and ground-based equipment/facilities. Such locations are in the acoustic far-field where the source may be regarded as a point source.

The Handbook provides measured and extrapolated data defining the bioacoustic environments in a wide variety of physical-acoustic and psychoacoustic measures:

Overall and band sound pressure levels

Overall and band acoustic power levels

Directivity indices

C-weighted and A-weighted overall sound levels

Preferred speech interference level

Perceived noise level

Limiting times for total daily exposure of personnel with and without standard Air Force headgear/ear protectors

Refer to Volume 1 which discusses in detail the types of data available in the Handbook, definitions of quantities, symbols, methods for acquiring and analyzing data, equations, applications, limitations, etc. This information is not repeated in the other Handbook volumes.

TYPES OF DATA NOT INCLUDED

The Handbook does not include data on the noise produced on the ground by aircraft during flight (e.g., takeoff, flyover, landing). For such information see references 1-6.

The Handbook also does not include data on noise environs produced by shop/industrial equipment, office equipment, computer facilities, building air conditioning/ventilating equipment, ground transportation, construction equipment, nor materials handling equipment.

Neither does the scope of the Handbook include impulse noise (e.g., blasts or sonic booms) nor does it provide architectural acoustics data.

AVAILABILITY OF COPIES

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TECHNICAL QUESTIONS

Direct any questions concerning the technical data in this handbook to: AFAMRL/BBE, Wright-Patterson AFB OH 45433. Telephone: AUTOVON 785-3675 or 785-3664, Commercial (513) 255-3675 or (513) 255-3664.

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1. Speakman, J. D., Powell, R. G., and Cole, J. N. Community Noise Exposure Resulting From Aircraft Operations: Acoustic Data on Military Aircraft. AMRL-TR-73-110, Volume 1, AD A053699, Wright-Patterson AFB OH: AF Aerospace Medical Research Lab, November 1977.
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6. Speakman, J. D., Powell, R. G., and Lee, R. A. Community Noise Exposure Resulting From Aircraft Operations: Acoustic Data on Military Aircraft - Navy Aircraft. AMRL-TR-73-110, Volume 6, AD A056217, Wright-Patterson AFB OH: AF Aerospace Medical Research Lab, March 1978.

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1	ORGANIZATION, CONTENT AND APPLICATION INDEX	J. N. COLE J. N. COLE, N. J. PEACHEY	AD A-031865	JUN 75
2	A-1 GENERATOR SET	J. N. COLE, N. A. FARINACCI	AD A-029577	JUN 75
3	MA-1A POWER UNIT, GAS TURBINE ENGINE (AIRESEARCH) MA-1A POWER UNIT, GAS TURBINE ENGINE (CONTINENTAL)	R. T. ENGLAND N. A. FARINACCI	AD A-029578	JUN 75
4	A/M32A-60 GENERATOR SET, POWER UNIT	N. A. FARINACCI	AD A-029579	JUN 75
5	MD-3 GENERATOR SET	N. A. FARINACCI	AD A-029580	JUN 75
6	C-26-M GENERATOR SET	N. A. FARINACCI	AD A-029581	JUN 75
7	MC-1M COMPRESSOR	N. A. FARINACCI	AD A-029582	JUN 75
8	MC-11 AIR COMPRESSOR	N. A. FARINACCI	AD A-029583	JUL 75
9	MC-2A COMPRESSOR, ROTARY, POWER DRIVEN	N. A. FARINACCI	AD A-029584	JUL 75
11	MJ-3 TEST STAND, AIRCRAFT HYDRAULIC SYSTEM	N. A. FARINACCI	AD A-029585	JUL 75
12	MA-1 MANIFOLD SET, HYDRAULIC JACKING	N. A. FARINACCI	AD A-029586	JUL 75
13	MD-3M GENERATOR SET	N. A. FARINACCI	AD A-029587	JUL 75
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15	NF-2 FLOODLIGHT SET	N. A. FARINACCI	AD A-029589	JUL 75
17	MC-1 COMPRESSOR, RECIPROCATING, POWER DRIVEN	N. A. FARINACCI	AD A-029590	JUL 75
18	A/E24U-8 POWER PLANT, ELECTRIC, GAS TURBINE	N. A. FARINACCI	AD A-029591	JUL 75
19	BT40D-10 HEATER, ENGINE AND SHELTER, TYPE H-1	N. A. FARINACCI	AD A-029592	JUL 75
20	MJ-2A TEST STAND, AIRCRAFT HYDRAULIC SYSTEM-GASOLINE ENGINE DRIVEN	N. A. FARINACCI	AD A-029593	AUG 75
21	MH-1 TESTER, PRESSURIZED LEAKAGE CABIN AIRCRAFT PU286 (JHGWSA) GENERATOR SET	N. A. FARINACCI	AD A-029594	AUG 75
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38	UH-1F IN-FLIGHT CREW NOISE	J.F. ROSE, JR., N.A. FARINACCI	AD A-029612	SEP 75
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108	A/M2C-4 AIR CONDITIONER	N.A. FARINACCI	AD A-048946	DEC 76
109	MK-3A TEST STAND, AIRCRAFT SYSTEM, ELECTRIC MOTOR-DRIVEN	N.A. FARINACCI	AD A-048947	DEC 76
110	R/M27T-2 TEST STAND, AIRCRAFT SYSTEM, ELECTRIC MOTOR-DRIVEN	R.W. GORMAN, N.A. FARINACCI	AD A-053713	NOV 77
111	MC-1A MOTOR GENERATOR, MOBILE	N.A. FARINACCI	AD A-048948	DEC 76
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119	C-135B AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-087953	DEC 79
120	C-5A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-079866	JUL 79
121	F-4C AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-079867	APR 79
122	F-16 AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-081844	AUG 79
123	F-100D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-08934	AUG 79
124	F-104D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-081845	AUG 79
125	F-105D AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073616	OCT 78
126	C-141A IN-FLIGHT CREW/PASSENGER NOISE	H.K. HILLE	AD A-091585	JUN 80
127	F-15A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-082652	AUG 79
128	T-38 AIRCRAFT IN THE AF32A-1B NOISE SUPPRESSOR,	R.A. LEE	AD A-079868	JUL 79
129	NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-073793	NOV 78
130	F-100 AIRCRAFT IN THE AF32A-16 NOISE SUPPRESSOR,	R.A. LEE	AD A-090618	JUL 80
131	NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-079869	FEB 79
132	F-5 AIRCRAFT IN THE AF32A-1B NOISE SUPPRESSOR,	R.A. LEE	AD A-079870	MAR 79
133	NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-079871	JUL 79
134	F-15 AIRCRAFT IN THE AF32A-23 NOISE SUPPRESSOR,	R.A. LEE	AD A-079872	MAR 79
135	KC-135A AIRCRAFT IN THE MODIFIED AF32A-52A NOISE SUPPRESSOR,	R.A. LEE	AD A-079873	NOV 78
	F-105 AIRCRAFT IN THE AF32A-17 NOISE SUPPRESSOR,			
	NEAR AND FAR-FIELD NOISE			

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VOLUME NUMBER	TITLE	VOLUME	AUTHOR(S)	AD NUMBER	PUBLICATION DATE
136	F-111A AIRCRAFT IN THE AF32A-13 NOISE SUPPRESSOR, FAR-FIELD NOISE	R.A. LEE	AD A-079874	MAR 79	
137	F-101B AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073617	OCT 78	
138	F-102A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-073618	OCT 78	
139	E-3A AIRCRAFT, NEAR AND FARFIELD NOISE	R.G. POWELL	AD A-082653	AUG 79	
140	F-16 AIRCRAFT IN THE AF32A-25 NOISE SUPPRESSOR, NEAR AND FAR-FIELD NOISE	R.A. LEE	AD A-079875	AUG 79	
141	F/A-18 AIRCRAFT, FAR-FIELD NOISE	R.G. POWELL	AD A-082654	JUL 79	
142	F-101B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-080910	AUG 79	
143	F-105D IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-080925	AUG 79	
144	F-106A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081646	JUL 79	
145	F-106B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081847	JUL 79	
146	F-16B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-081848	AUG 79	
147*	T-37B IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-114943	NOV 81	
148	C-9A IN-FLIGHT CREW/PASSENGER NOISE	T.H. RAU	AD A-116145	MAY 82	
149	C-140 IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120508	SEP 82	
150					
151*	C-12A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120509	SEP 82	
152					
153*	E-4B IN-FLIGHT CREW/PASSENGER NOISE	T.H. RAU	AD A-116146	MAY 82	
154	CH-3 IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120791	SEP 82	
155					
156	HH-1N IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-122601	NOV 82	
157	KC-10A IN-FLIGHT CREW NOISE	H.K. HILLE	AD A-120507	SEP 82	
158	KC-10A AIRCRAFT, NEAR AND FAR-FIELD NOISE	T.H. RAU	AD A-116930	MAY 82	
159*	KC-10A AIRCRAFT, NEAR AND FAR-FIELD NOISE	R.G. POWELL	AD A-121301	SEP 82	
160					
161	A/M32A-86 GENERATOR SET, DIESEL ENGINE DRIVEN	T.H. RAU	AD A-116147	MAY 82	
162	MD-4M0 GENERATOR SET	T.H. RAU	AD A-116148	MAY 82	
163	GPC-2B COMPRESSOR SET	T.H. RAU	AD A-116149	MAY 82	
164	MD-1 HEATER, DUCT TYPE, PORTABLE	T.H. RAU	AD A-116150	MAY 82	
165	MC-1 HEATER, DUCT TYPE, PORTABLE	T.H. RAU	AD A-116151	JUN 82	
166	AF/M32T-1 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT	T.H. RAU	AD A-11795D	JUL 82	
167	MA-3M AIR CONDITIONER	T.H. RAU	AD A-116152	JUN 82	
168	MB-3 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT	T.H. RAU	AD A-116153	JUN 82	
169*					
170*					

*WILL NOT BE PUBLISHED

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VOLUME NUMBER	VOLUME TITLE	AUTHOR(S)	AD NUMBER	PUBLICATION DATE
11	171* 172	MUSH-HOUSE NOISE SUPPRESSOR (AERO SYSTEMS ENGINEERING INC.) FAR-FIELD NOISE R.A. LEE, T.H. ROU C. JONES	AD A-110773	FEB 83 JUL 82

*WILL NOT BE PUBLISHED

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		FAR-FIELD	IN-FLIGHT
A-1 GENERATOR SET	52	3	C-131B AIRCRAFT	33	87
A-1C AIRCRAFT		77	C-131D/E AIRCRAFT		87+
A-6A AIRCRAFT		94	C-135A AIRCRAFT		83+
A-7 NOISE SUPPRESSORS	41	130	C-135B AIRCRAFT		119
A-7D AIRCRAFT		80	C-140 AIRCRAFT	150	119
A-7E AIRCRAFT			C-141A AIRCRAFT	126	75
AU-8A AIRCRAFT	102	72	CH-3 AIRCRAFT	155	75
AU-8A AIRCRAFT		70+	D-4 TEST STAND		27
A-37A AIRCRAFT		70	D-5 HYDRAULIC TEST STAND		86+
A-37B AIRCRAFT			DC-130E AIRCRAFT		
AC-119G AIRCRAFT	53	99+	E-3A AIRCRAFT	139	139
AC-119K AIRCRAFT			E-4B AIRCRAFT	154	
AC-130A AIRCRAFT	55	86+	EB-57B/E AIRCRAFT		68+
AC-130E AIRCRAFT		86+	EC-12-D/Q/S/T AIRCRAFT		100+
AF/M24T-2 CABIN TESTER	116		EC-135A/G/H/K/L/N/P ACRFT		83+
AF/M32T-1 CABIN TESTER			EC-135C/J AIRCRAFT		
AF-224U-B POWER PLANT	166	166	EC-135H AIRCRAFT		
A-227T-2 TEST STAND	18	18	EF-111A AIRCRAFT		
A-1932A-60 GENERATOR SET	110		EMU-10-U GENERATOR SET		
A-1932A-60A GENERATOR SET	6	6	F-4 NOISE SUPPRESSOR		
A-1932A-60A GENERATOR SET	104	104			
A-1932A-60A GENERATOR SET	105	105	F-4C AIRCRAFT		
A-1932A-86 GENERATOR SET	161	161	F-4D AIRCRAFT		
A-1932C-4 AIR CONDITIONER	108		F-4D/E AIRCRAFT		
B-52P AIR CONDITIONER	6.4+	6.4+	F-5 NOISE SUPPRESSOR		
B-52G AIRCRAFT	6.4	6.4	F-5E AIRCRAFT		
B-52H AIRCRAFT					
B-52M AIRCRAFT	31	82	F-14A AIRCRAFT		92
B-57B/C/E AIRCRAFT		68+	F-15 NOISE SUPPRESSOR		133
B-57G AIRCRAFT		68	F-15A AIRCRAFT		63
C-5A AIRCRAFT	62	120	F-16 AIRCRAFT		122
C-7A AIRCRAFT		98	F-16 NOISE SUPPRESSOR		140
C-9A AIRCRAFT	149	84	F-16A AIRCRAFT		
C-12A AIRCRAFT	152		F-16B AIRCRAFT		
C-26-M GENERATOR SET	8	8	F-1A-18 AIRCRAFT		
C-37E/G/K AIRCRAFT			F-100 NOISE SUPPRESSOR		
C-119G/J AIRCRAFT	99+	99+	F-100C/F AIRCRAFT		
C-119L AIRCRAFT			F-100D AIRCRAFT		
C-121G AIRCRAFT		100	F-100F AIRCRAFT		
C-123K AIRCRAFT	54	78	F-101B AIRCRAFT		
C-130A/B/D AIRCRAFT		86+	F-101F AIRCRAFT		
C-130E AIRCRAFT	38	86	F-102A AIRCRAFT		

* DATA FOR THIS TYPE/MODEL AIRCRAFT WERE NOT MEASURED BUT CAN BE OBTAINED FROM THE HANDBOOK VOLUMES INDICATED FOR SIMILAR AIRCRAFT WHICH ARE EQUIVALENT NOISE-WISE.

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		FAR-FIELD	NEAR-FIELD
F-104A/C/G AIRCRAFT		124+		MC-1A COMPRESSOR	28
F-104D AIRCRAFT	44	124		MC-1A MOTOR GENERATOR	111
F-105B/F/G AIRCRAFT		125+		MC-1M COMPRESSOR	9
F-105D AIRCRAFT	143	125		MC-2A COMPRESSOR	11
F-106 NOISE SUPPRESSOR		135		MC-11 COMPRESSOR	10
F-106A AIRCRAFT	144	158		MD-1 HEATER	164
F-106B AIRCRAFT	145	67		MD-3 GENERATOR SET	7
FB-111A AIRCRAFT		61		MD-3A GENERATOR SET	30
F-111A AIRCRAFT		81+		MD-3M GENERATOR SET	14
F-111A(TF30-P-3)/C/D/E				MD-4 GENERATOR SET	118
F-111A NOISE SUPPRESSOR				MJ-1 HYDRAULIC TEST STAND	162
F-111E AIRCRAFT	45	71		MJ-1 TRUCK, BOMB SERVICE	15
F-111F AIRCRAFT	163	163		MJ-1 TRUCK, BOMB SERVICE	23
GPC-2B COMPRESSOR		19		MJ-2A HYD. TEST STAND	20
H-1 HEATER		19		MJ-3 HYDRAULIC TEST STAND	12
HC-130N AIRCRAFT	56	112		MJ-4 TRUCK, BOMB SERVICE	29
HDU-13/M HEATER				MK-1 TEST STAND	29
HH-1N AIRCRAFT	156			MK-3A TEST STAND	113
HH-3E AIRCRAFT	61			NF-2 FLOODLIGHT SET	109
HH-43B AIRCRAFT	50			O-2A AIRCRAFT	16
HH-53C AIRCRAFT	51			O-2B AIRCRAFT	47
HUSH-HOUSE SUPPRESSOR				OU-10A AIRCRAFT	40
KC-10A AIRCRAFT	157	160		P-3A AIRCRAFT	85
KC-97L AIRCRAFT				PU2B6 GENERATOR SET	22
KC-135A AIRCRAFT	32	83		QU-22B AIRCRAFT	76
KC-135A NOISE SUPPRESSOR				RA-5C AIRCRAFT	76+
KC-135Q/R AIRCRAFT				RB-57E AIRCRAFT	85
MA-1 AIR CONDITIONER		83+		RC-135A/D/T AIRCRAFT	91
MA-1A AIR CONDITIONER	13	13		RC-135/M/S/U AIRCRAFT	22
MA-1A POWER UNIT (AIRESEARCH)	106			RF-4C AIRCRAFT	121+
MA-1A POWER UNIT (CONTINENTAL)	4	4		RF-101B AIRCRAFT	93
MA-3 AIR CONDITIONER	5	5		S-3A AIRCRAFT	68+
MA-3M AIR CONDITIONER	26	26		T-2C AIRCRAFT	83+
MA-7 AIR CONDITIONER	167			RC-135A/D/T AIRCRAFT	83+
MA-8 AIR CONDITIONER	25	25		T-2BB AIRCRAFT	119+
MA-10 AIR CONDITIONER	107			T-2BD AIRCRAFT	121+
MB-1 CABIN PRESS. TESTER				RF-101B AIRCRAFT	137+
MB-1 COMPRESSOR	21	21		T-28D-5 AIRCRAFT	90
MB-3 CABIN TESTER	114			T-33A AIRCRAFT	89
MC-1 COMPRESSOR	168			T-37B AIRCRAFT	65
MC-1 HEATER	17	17		T-38 NOISE SUPPRESSOR	128
MC-1 HEATER	165	165		T-38A AIRCRAFT	36
					74
					74

* DATA FOR THIS TYPE MODEL AIRCRAFT WERE NOT MEASURED BUT CAN BE OBTAINED FROM THE HANDBOOK VOLUMES INDICATED FOR SIMILAR AIRCRAFT WHICH ARE EQUIVALENT NOISE-WISE.

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SYSTEM	VOLUME NUMBER			SYSTEM
	IN-FLIGHT	NEAR-FIELD	FAR-FIELD	
T-38A AIRCRAFT		97	97	
T-38B AIRCRAFT	35	97+	97+	
T-33A AIRCRAFT	49	73	73	
TF-104G AIRCRAFT		124+	124+	
UH-1F AIRCRAFT	39			
UH-1N AIRCRAFT				
U-4B AIRCRAFT	60	66	66	
U-10B AIRCRAFT	58	78+	78+	
UC-123K AIRCRAFT				
VC-118A AIRCRAFT	34			
VC-121C AIRCRAFT		100+	100+	
UC-123K AIRCRAFT		78+	78+	
UC-131D AIRCRAFT		87+	87+	
UC-135B AIRCRAFT		119+	119+	
WB-57C AIRCRAFT		68+	68+	
HC-130B/E AIRCRAFT		86+	86+	
HC-135B AIRCRAFT		119+	119+	

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		FAR-FIELD	IN-FLIGHT
MILITARY AIRCRAFT - ATTACK					
A-1E AIRCRAFT	52	77	EF-111A AIRCRAFT	81+	81+
A-6A AIRCRAFT	41	80	F-4C AIRCRAFT	121	121
A-7D AIRCRAFT			F-4D AIRCRAFT		
A-7E AIRCRAFT			F-4D/E AIRCRAFT	37	121+
AU-8A AIRCRAFT			F-5E AIRCRAFT	103	69
A-10A AIRCRAFT	102	72	F-14A AIRCRAFT	92	92
A-37A AIRCRAFT			F-15A AIRCRAFT	63	63
A-37B AIRCRAFT	70	70+	F-16 AIRCRAFT	122	122
RA-5C AIRCRAFT			F-16A AIRCRAFT		
			F-16B AIRCRAFT	117	
			F/A-18 AIRCRAFT	146	
MILITARY AIRCRAFT - BOMBER					
B-52F AIRCRAFT	64+	64+	F-100C/F AIRCRAFT	123+	141
B-52G AIRCRAFT	64	64	F-100D AIRCRAFT	123	123
			F-100F AIRCRAFT	43	
B-52H AIRCRAFT	31	82	F-101B AIRCRAFT	142	137
B-57B/C/E AIRCRAFT		68+	F-101F AIRCRAFT		137+
B-57G AIRCRAFT		68	F-102A AIRCRAFT	138	138
EB-57BE AIRCRAFT		68+	F-104A/C/G AIRCRAFT	124+	124+
FB-111A AIRCRAFT		67	F-104D AIRCRAFT	44	124
RB-57E AIRCRAFT		68+	F-105B/F/G AIRCRAFT	125+	125+
WB-57C AIRCRAFT		68+	F-105D AIRCRAFT	143	125
			F-106A AIRCRAFT	144	158
			F-106B AIRCRAFT	145	
			F-111A AIRCRAFT		
			F-111A(CF30-P-3)/C/D/E		
			F-111E AIRCRAFT	45	81+
			F-111F AIRCRAFT		
			RF-4C AIRCRAFT	71	71
			RF-101B AIRCRAFT	121+	121+
			TF-104G AIRCRAFT	137+	137+
				124+	124+
MILITARY AIRCRAFT - OBSERVATION					
O-2A AIRCRAFT			MILITARY AIRCRAFT - OBSERVATION	46	76
O-2B AIRCRAFT			O-2A AIRCRAFT	47	76+
OU-10A AIRCRAFT			OU-10A AIRCRAFT	40	85

* DATA FOR THIS TYPE/MODEL AIRCRAFT WERE NOT MEASURED BUT CAN BE OBTAINED FROM THE HANDBOOK VOLUMES INDICATED FOR SIMILAR AIRCRAFT WHICH ARE EQUIVALENT NOISE-WISE.

SYSTEM	VOLUME NUMBER		FAR-FIELD	IN-FLIGHT	VOLUME NUMBER		FAR-FIELD
	IN-FLIGHT	NEAR-FIELD			IN-FLIGHT	NEAR-FIELD	
MILITARY AIRCRAFT - CARGO/TRANSPORT							
AC-119G AIRCRAFT	53	99+	99+				
AC-119K AIRCRAFT	55	86+	86+				
AC-130A AIRCRAFT	120	120	120				
AC-130E AIRCRAFT	62	98	98				
C-5A AIRCRAFT							
C-7A AIRCRAFT							
C-9A AIRCRAFT	149	84	84				
C-12A AIRCRAFT	152						
C-97E/G/K AIRCRAFT							
C-119G/J AIRCRAFT							
C-119L AIRCRAFT	99+	99+	99+				
C-121G AIRCRAFT	99	99	99				
C-123K AIRCRAFT	100	100	100				
C-130A/B/D AIRCRAFT	78	78	78				
C-130E AIRCRAFT	86+	86+	86+				
C-131B AIRCRAFT	86	86	86				
C-131D/E AIRCRAFT	87	87	87				
C-135A AIRCRAFT	87+	87+	87+				
C-135B AIRCRAFT	83+	83+	83+				
C-140 AIRCRAFT	119	119	119				
C-141A AIRCRAFT	150	75	75				
DC-130E AIRCRAFT	126	86+	86+				
EC-121D/Q/S/T AIRCRAFT	100+	100+	100+				
EC-135A/G/H/K/L/N/P AIRCRAFT	83+	83+	83+				
EC-135C/J AIRCRAFT	119+	119+	119+				
HC-130H AIRCRAFT	42						
KC-10A AIRCRAFT	56	160	160				
KC-123K AIRCRAFT	157						
KC-97L AIRCRAFT							
KC-135A AIRCRAFT	32	83	83				
KC-135Q/R AIRCRAFT							
RC-135A/D-T AIRCRAFT							
RC-135C/M/S/U AIRCRAFT							
UC-123K AIRCRAFT							
UC-118A AIRCRAFT							
UC-121C AIRCRAFT							
UC-123K AIRCRAFT							
UC-131D AIRCRAFT							
UC-135B AIRCRAFT							
WC-130B/E AIRCRAFT							
WC-135F AIRCRAFT							
MILITARY AIRCRAFT - TRAINING							
T-2C AIRCRAFT							
T-28B AIRCRAFT							
T-28D-5 AIRCRAFT							
T-33A AIRCRAFT							
T-37B AIRCRAFT							
T-38A AIRCRAFT							
T-39A AIRCRAFT							
T-39B AIRCRAFT							
T-43A AIRCRAFT							
MILITARY AIRCRAFT - UTILITY							
QU-22B AIRCRAFT							
U-4B AIRCRAFT							
U-10B AIRCRAFT							
MILITARY AIRCRAFT - HELICOPTER							
CH-3 AIRCRAFT							
HH-1N AIRCRAFT							
HH-3E AIRCRAFT							
HH-43B AIRCRAFT							
HH-53C AIRCRAFT							
UH-1F AIRCRAFT							
UH-1N AIRCRAFT							
MILITARY AIRCRAFT - OTHER							
E-3A AIRCRAFT							
E-4B AIRCRAFT							
S-3A AIRCRAFT							
GROUND SUPPORT EQUIPMENT - AIR CONDITIONER							
MA-1/AIR CONDITIONER							
MA-1/AIR CONDITIONER							
MA-3/AIR CONDITIONER							
MA-3M/AIR CONDITIONER							
MA-7/AIR CONDITIONER							
MA-8/AIR CONDITIONER							

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SYSTEM	VOLUME NUMBER		SYSTEM	VOLUME NUMBER	
	IN-FLIGHT	NEAR-FIELD		FAR-FIELD	
GROUND SUPPORT EQUIPMENT - COMPRESSOR					
GPC-2B COMPRESSOR	163	163	GROUND SUPPORT EQUIPMENT - TESTER	116	
MB-1 COMPRESSOR	114	117	AF-1/24T-2 CABIN TESTER	166	
MC-1 COMPRESSOR	28	28	AF-1/32T-1 CABIN TESTER	21	21
MC-1A COMPRESSOR	9	9	MB-1 CABIN PRESS. TESTER	168	
MC-1M COMPRESSOR	11	11	MB-3 CABIN TESTER		
MC-2A COMPRESSOR	10	10	GROUND SUPPORT EQUIPMENT - TRUCK		
MC-11 COMPRESSOR			MJ-1 TRUCK, BOMB SERVICE	23	23
			MJ-4 TRUCK, BG 1B SERVICE	29	29
GROUND SUPPORT EQUIPMENT - GENERATOR					
A-1 GENERATOR SET	3	3	GROUND SUPPORT EQUIPMENT - OTHER	13	13
A/E24U-8 POWER PLANT	18	18	MA-1 HYDRAULIC JACK		
A/M32A-6D GENERATOR SET	6	6	NOISE SUPPRESSORS/TEST CELLS		
A/M32A-80A GENERATOR SET	104	104	A-7 NOISE SUPPRESSORS	130	
A/M32A-80A GENERATOR SET	105	105	F-4 NOISE SUPPRESSOR	131	
A/M32A-86 GENERATOR SET	161	161	F-5 NOISE SUPPRESSOR	132	
C-26-M GENERATOR SET	8	8	F-15 NOISE SUPPRESSOR	133	
EMU-10-U GENERATOR SET	24	24	F-16 NOISE SUPPRESSOR	140	
HA-1A POWER UNIT (AIRESEARCH)	4	4	F-100 NOISE SUPPRESSOR	129	
HA-1A POWER UNIT (CONTINENTAL)	5	5	F-106 NOISE SUPPRESSOR	135	
MC-1A MOTOR GENERATOR	111		F-11A NOISE SUPPRESSOR	136	
MD-3 GENERATOR SET	7	7	HUSH-HOUSE SUPPRESSOR	172	
MD-3A GENERATOR SET	14	14	KC-125A NOISE SUPPRESSOR	134	
MD-4 GENERATOR SET	118		T-3B NOISE SUPPRESSOR	128	
MD-4M GENERATOR SET	162				
PU286 GENERATOR SET	22	22			
GROUND SUPPORT EQUIPMENT - HEATER					
H-1 HEATER	19	19	GROUND SUPPORT EQUIPMENT - TEST STAND		
HDU-13-M HEATER	112		A-1/27T-2 TEST STAND	110	
MC-1 HEATER	165	165	D-4 TEST STAND	115	
MD-1 HEATER	164		D-5 HYDRAULIC TEST STAND	27	27
GROUND SUPPORT EQUIPMENT - LIGHT			MJ-1 HYDRAULIC TEST STAND	15	15
NF-2 FLOODLIGHT SET	16	16	MJ-2A HYD. TEST STAND	20	20
			MJ-3 HYDRAULIC TEST STAND	12	12
			PK-1 TEST STAND	113	
			TM-3A TEST STAND	109	

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